

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently Amended) A control circuit for controlling the operation of a
2 piezo ceramic actuator comprising means for applying a voltage to the
3 piezo ceramic actuator, the voltage applying means being arranged such
4 that a charge is applied to the piezo ceramic device which in turn
5 produces a displacement of the piezo ceramic device, means for
6 generating a control signal indicative of the temperature of the actuator
7 and means for altering the amount of reverse bias voltage as a function
8 of the control signal, characterised in that wherein the voltage applying
9 means is arranged to apply a reverse bias voltage to the actuator.
- 1 2. (Canceled).
- 1 3. (Previously Presented) The control circuit according to claim 1, wherein
2 the means for applying a voltage includes an H-bridge.
- 1 4. (Original) The control circuit according to claim 3, wherein the H-bridge is
2 provided with a plurality of switches arranged to charge and discharge the
3 piezo ceramic device.
- 1 5. (Original) The control circuit according to claim 4, wherein the plurality of
2 switches are transistor switches.
- 1 6. (Previously Presented) The control circuit according to claim 3, wherein
2 the H-bridge is configured to apply the reverse bias voltage to the
3 actuator.

- 1 7. (Previously Presented) A piezo ceramic actuator arrangement according
2 to claim 1, comprising a piezo ceramic actuator and a control.
- 1 8. (Currently Amended) The control circuit according to claim [[2]] 1, wherein
2 the means for applying a voltage includes an H-bridge.
- 1 9. (Previously Presented) The control circuit according to claim 8, wherein
2 the H-bridge is provided with a plurality of switches arranged to charge
3 and discharge the piezo ceramic device.
- 1 10. (Previously Presented) The control circuit according to claim 9, wherein
2 the plurality of switches are transistor switches.
- 1 11. (Previously Presented) The control circuit according to claim 8, wherein
2 the H-bridge is configured to apply the reverse bias voltage to the
3 actuator.
- 1 12. (Previously Presented) The control circuit according to claim 4, wherein
2 the H-bridge is configured to apply the reverse bias voltage to the
3 actuator.
- 1 13. (Previously Presented) The control circuit according to claim 9, wherein
2 the H-bridge is configured to apply the reverse bias voltage to the
3 actuator.
- 1 14. (Previously Presented) The control circuit according to claim 5, wherein
2 the H-bridge is configured to apply the reverse bias voltage to the
3 actuator.
- 1 15. (Previously Presented) The control circuit according to claim 10, wherein
2 the H-bridge is configured to apply the reverse bias voltage to the
3 actuator.